

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/009672

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ B65G39/02, B65G13/00, B65G49/06, B65G49/07, H01L21/68										
According to International Patent Classification (IPC) or to both national classification and IPC										
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ B65G39/02, B65G13/00, B65G49/06, B65G49/07, H01L21/68										
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Jitsuyo Shinan Koho</td> <td style="width: 33%;">1922-1996</td> <td style="width: 33%;">Jitsuyo Shinan Toroku Koho</td> <td style="width: 33%;">1996-2004</td> </tr> <tr> <td>Kokai Jitsuyo Shinan Koho</td> <td>1971-2004</td> <td>Toroku Jitsuyo Shinan Koho</td> <td>1994-2004</td> </tr> </table>			Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2004	Kokai Jitsuyo Shinan Koho	1971-2004	Toroku Jitsuyo Shinan Koho	1994-2004
Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2004							
Kokai Jitsuyo Shinan Koho	1971-2004	Toroku Jitsuyo Shinan Koho	1994-2004							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)										
C. DOCUMENTS CONSIDERED TO BE RELEVANT										
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.								
X Y	JP 2000-211717 A (Koyo Seiko Co., Ltd.), 02 August, 2000 (02.08.00), Full text; Figs. 1 to 4 (Family: none)	1-4, 10, 11 5-9								
Y	JP 7-164078 A (Murata Machinery Ltd.), 27 June, 1995 (27.06.95), Page 2, left column, lines 2 to 6; page 3, left column, lines 3 to 7; Figs. 1, 2 (Family: none)	5, 6								
Y	JP 11-11620 A (Kabushiki Kaisha Shinkuron, Sanden Shoji Co., Ltd.), 19 January, 1999 (19.01.99), Page 2, left column, lines 12 to 14; Fig. 1 (Family: none)	6								
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.										
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed </td> <td style="width: 50%; vertical-align: top;"> "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family </td> </tr> </table>			* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family						
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family									
Date of the actual completion of the international search 30 August, 2004 (30.08.04)		Date of mailing of the international search report 21 September, 2004 (21.09.04)								
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer								
Facsimile No.		Telephone No.								

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2002-240924 A (Takachiho TAKEDA), 28 August, 2002 (28.08.02), Page 3, right column, lines 20 to 25; Figs. 1, 2 (Family: none)	7
Y	JP 2000-219308 A (SR Engineering Co., Ltd., Iguchikiko Seisakusho Co., Ltd.), 08 August, 2000 (08.08.00), Page 5, right column, lines 34 to 46; Fig. 1 & TW 408044 B & US 6279716 B1	8
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 11734/1971 (Laid-open No. 9160/1972) (Michio KIMURA), 03 October, 1972 (03.10.72), Full text; Figs. 1 to 3 (Family: none)	9
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 9854/1982 (Laid-open No. 113491/1983) (Kabushiki Kaisha Kyoei Seiko), 03 August, 1983 (03.08.83), Page 4, lines 3 to 20; Figs. 1 to 4 (Family: none)	10
A	JP 6-183556 A (Central Glass Co., Ltd.), 05 July, 1994 (05.07.94), Page 2, right column, lines 1 to 31; Figs. 1 to 3 (Family: none)	11
P,A	JP 2004-155531 A (Kabushiki Kaisha Tankenshiruseko), 03 June, 2004 (03.06.04), Full text; Figs. 1 to 3 (Family: none)	1-11

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